A B S T R A C T

A distributor (30) includes a square waveguide (31) to be connected to a microwave oscillator (20) and a square waveguide (41) having a plurality of openings (43) formed in a narrow wall (41B). The square waveguide (31) is hollow. A wave delaying member (53) having a relative dielectric constant ε_r is arranged in the square waveguide (41). Narrow walls (31A, 41A) of the two square waveguides (31, 41) are brought into contact with each other, and a communication hole (32) through which the two waveguides (31, 41) communicate with each other is formed in the narrow walls (31A, 41A). The widths of the two waveguides (31, 41) do not become narrow at their connecting portion even if the width of the communication hole (32) is decreased. Thus, a band of a frequency that can pass through the connecting portion is suppressed from becoming narrow. Consequently, reflection loss that occurs when the frequency of electromagnetic waves to be input to the distributor (30) changes can be decreased.